

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/14101

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ A61K31/4468, 31/454, 31/4545, A61P1/04, 1/14, 3/10, 9/06, 9/10, 9/12, 11/00, 11/06, 13/12, 15/12, 19/02, 25/04, 29/00, 37/04, 43/00, C07D211/58, 211/66, 401/04, 417/04,

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ A61K31/4468, 31/454, 31/4545, A61P1/04, 1/14, 3/10, 9/06, 9/10, 9/12, 11/00, 11/06, 13/12, 15/12, 19/02, 25/04, 29/00, 37/04, 43/00, C07D211/58, 211/66, 401/04, 417/04,

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
REGISTRY (STN), CAPLUS (STN), CAOLD (STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4126689 A (JANSSEN PHARMACEUTICA N.V.), 21 November, 1978 (21.11.78), TABLE I & JP 52-39683 A & GB 1539473 A & DE 2642856 A1 & NO 7603054 A & FR 2325377 A1 & AU 7617878 A1 & CA 1068271 A1 & IL 50522 A1 & CH 628623 A & FI 7602698 A & DK 7604278 A & SE 7610501 A & NL 7610513 A & ZA 7605684 A & ES 451768 A1 & AT 7607029 A & PL 117323 B1	1-8, 10

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
13 January, 2004 (13.01.04)

Date of mailing of the international search report
27 January, 2004 (27.01.04)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4791120 A (THE BOC GROUP INC.), 13 December, 1988 (13.12.88), Full text & JP 1-213278 A & US 4871749 A & EP 328830 A1 & AU 8826604 A1 & NO 8805463 A & IL 88645 A1 & DK 8807328 A & FI 8806057 A & CN 1035285 A	11-17,20-28
X	US 4801615 A (THE BOC GROUP INC.), 31 January, 1989 (31.01.89), Full text & JP 1-213279 A & EP 323733 A1	11-15,18-28
X	Linus V. KUDZMA et al., 4-Phenyl- and 4-Heteroaryl -4-anilidopiperidines. A Novel Class of Analgesic and Anesthetic Agents, J.Med.Chem., 1989, Vol.32, No.12, pages 2534 to 2542; full text	11-18,20-22, 24,25
A	WO 01/44297 A1 (SYNAPTIC PHARMACEUTICAL CORP.), 21 June, 2001 (21.06.01), & EP 1242453 A1	1-8,10
A	Naoki SAKURA et al., Structure-Activity Relation ships of Neuromedin U. IV. Absolute Requirement of the Arginine Residue at Position 7 of Dog Neuromedin U-8 for Contractile Activity, Chem. Pharm.Bull., 2000, Vol.48, No.8, pages 1166 to 1170	1-8,10

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Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 9

because they relate to subject matter not required to be searched by this Authority, namely:

The invention as set forth in claim 9 pertains to a method for treatment of the human body by therapy.

2. ☐ Claims Nos.:

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:

because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/14101

Continuation of A. CLASSIFICATION OF SUBJECT MATTER (International Patent Classification (IPC))

Int.Cl⁷ 417/14, 401/06, 409/14

(According to International Patent Classification (IPC) or to both national classification and IPC)

Continuation of B. FIELDS SEARCHED

Minimum Documentation Searched (International Patent Classification (IPC))

Int.Cl⁷ 417/14, 401/06, 409/14

Minimum documentation searched (classification system followed by classification symbols)

<With respect to subject matters for search>

Claim 1 pertains to a neuromedine U receptor regulator which contains as an active ingredient either a compound having a partial structure represented by the formula (A) or a salt of the compound.

The compounds having a partial structure represented by the formula (A) involve an extremely large number of compounds. However, the compounds which are supported in the meaning of Article 6 of the PCT and are disclosed in the meaning of Article 5 of the PCT are limited to an extremely small part of the compounds claimed.

Consequently, a search was made with respect to only the part which is supported by and disclosed in the description, i.e., the neuromedine U receptor regulator containing a compound represented by the formula (I") or salt thereof.